OIPE

CRF Errors Corrected by the STIC Systems Branch

Serial Number: 09/899,732 ENTERED CRF Processing Date: 8/21/2001
Edited by:
Verified by: (STIC stat

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☑ Other: moved <223> response up one line - pages 16-17, 26-28

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING DATE: 08/21/2001
PATENT APPLICATION: **US/09/899,732** TIME: 11:32:32

Input Set : **A:\Pto.amc**
Output Set: **N:\CRF3\08162001\I899732.raw**

<110> APPLICANT: Salon et al, John A.
<120> TITLE OF INVENTION: DNA Encoding A Human Melanin Concentrating Hormone Receptor (MCH1) And Uses Thereof
<130> FILE REFERENCE: 1795/57453-C/JPW
C--> **<140> CURRENT APPLICATION NUMBER: US/09/899,732**
<141> CURRENT FILING DATE: 2001-07-05
<150> PRIOR APPLICATION NUMBER: 09/610,635
<151> PRIOR FILING DATE: 2000-07-05
<160> NUMBER OF SEQ ID NOS: 28
<170> SOFTWARE: PatentIn Ver. 2.1
<210> SEQ ID NO: 1
<211> LENGTH: 1269
<212> TYPE: DNA
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 1

```
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ggctgccagg ctacggagga agacccccct cccgactgcg gggcttgcgc tccgggacaa 120
ggtggcaggc gctggaggct gccgcagcct gcgtgggtgg aggggagctc agctcggttg 180
tgggagcagg cgaccggcac tggctggatg gacctggaag cctcgctgct gcccactggt 240
cccaatgcca gcaacacctc tgatggcccc gataacctca cttcagcagg atcacctcct 300
cgcacgggga gcatctccta catcaacatc atcatgcctt cggtgttcgg caccatctgc 360
ctcctgggca tcatcgggaa ctccacggtc atcttcgcgg tcgtgaagaa gtccaagctg 420
cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctcctc 480
tttctcctgg gcatgccctt catgatccac cagctcatgg gcaatggggt gtggcacttt 540
ggggagacca tgtgcaccct catcacggcc atggatgcca atagtcagtt caccagcacc 600
tacatcctga ccgccatggc cattgaccgc tacctggcca ctgtccaccc catctcttcc 660
acgaagttcc ggaagccctc tgtggccacc ctggtgatct gcctcctgtg ggccctctcc 720
ttcatcagca tcacccctgt gtggctgtat gccagactca tcccttccc aggaggtgca 780
gtgggctgcg gcatacgcct gcccaaccca gacactgacc tctactggtt caccctgtac 840
cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc 900
ctgcagcgca tgacgtcctc agtggccccc gcctcccagc gcagcatccg gctgcggaca 960
aagagggtga cccgcacagc catcgccatc tgtctggtct tctttgtgtg ctgggcaccc 1020
tactatgtgc tacagctgac ccagttgtcc atcagccgcc cgaccctcac ctttgtctac 1080
ttatacaatg cggccatcag cttgggctat gccaacagct gcctcaaccc ctttgtgtac 1140
atcgtgctct gtgagacgtt ccgcaaacgc ttggtcctgt cggtgaagcc tgcagcccag 1200
gggcagcttc gcgctgtcag caacgctcag acggctgacg aggagaggac agaaagcaaa 1260
ggcacctga                                                        1269
```

<210> SEQ ID NO: 2
<211> LENGTH: 422
<212> TYPE: PRT
<213> ORGANISM: Homo sapiens
<400> SEQUENCE: 2

```
Met Ser Val Gly Ala Met Lys Lys Gly Val Gly Arg Ala Val Gly Leu
 1               5                  10                  15
Gly Gly Gly Ser Gly Cys Gln Ala Thr Glu Glu Asp Pro Leu Pro Asp
            20                  25                  30
Cys Gly Ala Cys Ala Pro Gly Gln Gly Gly Arg Arg Trp Arg Leu Pro
```

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PATENT APPLICATION: US/09/899,732 TIME: 11:32:32

Input Set : A:\Pto.amc
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```
63          35                  40                  45
65 Gln Pro Ala Trp Val Glu Gly Ser Ser Ala Arg Leu Trp Glu Gln Ala
66      50                  55                  60
68 Thr Gly Thr Gly Trp Met Asp Leu Glu Ala Ser Leu Leu Pro Thr Gly
69  65                  70                  75                  80
71 Pro Asn Ala Ser Asn Thr Ser Asp Gly Pro Asp Asn Leu Thr Ser Ala
72                  85                  90                  95
74 Gly Ser Pro Pro Arg Thr Gly Ser Ile Ser Tyr Ile Asn Ile Ile Met
75             100                 105                 110
77 Pro Ser Val Phe Gly Thr Ile Cys Leu Leu Gly Ile Ile Gly Asn Ser
78         115                 120                 125
80 Thr Val Ile Phe Ala Val Val Lys Lys Ser Lys Leu His Trp Cys Asn
81     130                 135                 140
83 Asn Val Pro Asp Ile Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu
84 145                 150                 155                 160
86 Phe Leu Leu Gly Met Pro Phe Met Ile His Gln Leu Met Gly Asn Gly
87                 165                 170                 175
89 Val Trp His Phe Gly Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp
90             180                 185                 190
92 Ala Asn Ser Gln Phe Thr Ser Thr Tyr Ile Leu Thr Ala Met Ala Ile
93         195                 200                 205
95 Asp Arg Tyr Leu Ala Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg
96     210                 215                 220
98 Lys Pro Ser Val Ala Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser
99 225                 230                 235                 240
101 Phe Ile Ser Ile Thr Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe
102                 245                 250                 255
104 Pro Gly Gly Ala Val Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr
105             260                 265                 270
107 Asp Leu Tyr Trp Phe Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu
108         275                 280                 285
110 Pro Phe Val Val Ile Thr Ala Ala Tyr Val Arg Ile Leu Gln Arg Met
111     290                 295                 300
113 Thr Ser Ser Val Ala Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr
114 305                 310                 315                 320
116 Lys Arg Val Thr Arg Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val
117                 325                 330                 335
119 Cys Trp Ala Pro Tyr Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser
120             340                 345                 350
122 Arg Pro Thr Leu Thr Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu
123         355                 360                 365
125 Gly Tyr Ala Asn Ser Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys
126     370                 375                 380
128 Glu Thr Phe Arg Lys Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln
129 385                 390                 395                 400
131 Gly Gln Leu Arg Ala Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg
132                 405                 410                 415
134 Thr Glu Ser Lys Gly Thr
135             420
```

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Input Set : A:\Pto.amc
Output Set: N:\CRF3\08162001\I899732.raw

<210> SEQ ID NO: 3
<211> LENGTH: 1214
<212> TYPE: DNA
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 3
gcaggcgacc tgcaccggct gcatggatct gcaaacctcg ttgctgtcca ctggccccaa 60
tgccagcaac atctccgatg gccaggataa tctcacattg ccggggtcac ctcctcgcac 120
agggagtgtc tcctacatca acatcattat gccttccgtg tttggtacca tctgtctcct 180
gggcatcgtg ggaaactcca cggtcatctt tgctgtggtg aagaagtcca agctacactg 240
gtgcagcaac gtccccgaca tcttcatcat caacctctct gtggtggatc tgctcttcct 300
gctgggcatg cctttcatga tccaccagct catggggaac ggcgtctggc actttgggga 360
aaccatgtgc accctcatca cagccatgga cgccaacagt cagttcacta gcacctacat 420
cctgactgcc atgaccattg accgctactt ggccaccgtc caccccatct cctccaccaa 480
gttccggaag ccctccatgg ccaccctggt gatctgcctc ctgtgggcgc tctccttcat 540
cagtatcacc cctgtgtggc tctacgccag gctcattccc ttcccagggg gtgctgtggg 600
ctgtggcatc cgcctgccaa acccggacac tgacctctac tggttcactc tgtaccagtt 660
tttcctggcc tttgcccttc cgtttgtggt cattaccgcc gcatacgtga aaatactaca 720
gcgcatgacg tcttcggtgg ccccagcctc ccaacgcagc atccggcttc ggacaaagag 780
ggtgacccgc acggccattg ccatctgtct ggtcttcttt gtgtgctggg caccctacta 840
tgtgctgcag ctgacccagc tgtccatcag ccgcccgacc ctcacgtttg tctacttgta 900
caacgcggcc atcagcttgg gctatgctaa cagctgcctg aacccctttg tgtacatagt 960
gctctgtgag acctttcgaa aacgcttggt gttgtcagtg aagcctgcag cccaggggca 1020
gctccgcacg gtcagcaacg ctcagacagc tgatgaggag aggacagaaa gcaaaggcac 1080
ctgacaattc cccagtcgcc tccaagtcag gccaccccat caaaccgtgg ggagagatac 1140
tgagattaaa cccaaggcta ccctgggaga atgcagaggc tggaggctgg gggcttgtag 1200
caaccacatt ccac 1214

<210> SEQ ID NO: 4
<211> LENGTH: 353
<212> TYPE: PRT
<213> ORGANISM: Rattus norvegicus
<400> SEQUENCE: 4

```
Met Asp Leu Gln Thr Ser Leu Leu Ser Thr Gly Pro Asn Ala Ser Asn
 1               5                  10                  15
Ile Ser Asp Gly Gln Asp Asn Leu Thr Leu Pro Gly Ser Pro Pro Arg
            20                  25                  30
Thr Gly Ser Val Ser Tyr Ile Asn Ile Ile Met Pro Ser Val Phe Gly
        35                  40                  45
Thr Ile Cys Leu Leu Gly Ile Val Gly Asn Ser Thr Val Ile Phe Ala
    50                  55                  60
Val Val Lys Lys Ser Lys Leu His Trp Cys Ser Asn Val Pro Asp Ile
65                  70                  75                  80
Phe Ile Ile Asn Leu Ser Val Val Asp Leu Leu Phe Leu Leu Gly Met
                85                  90                  95
Pro Phe Met Ile His Gln Leu Met Gly Asn Gly Val Trp His Phe Gly
            100                 105                 110
Glu Thr Met Cys Thr Leu Ile Thr Ala Met Asp Ala Asn Ser Gln Phe
        115                 120                 125
Thr Ser Thr Tyr Ile Leu Thr Ala Met Thr Ile Asp Arg Tyr Leu Ala
    130                 135                 140
```

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Input Set : A:\Pto.amc
Output Set: N:\CRF3\08162001\I899732.raw

```
200 Thr Val His Pro Ile Ser Ser Thr Lys Phe Arg Lys Pro Ser Met Ala
201 145                 150                 155                 160
203 Thr Leu Val Ile Cys Leu Leu Trp Ala Leu Ser Phe Ile Ser Ile Thr
204                 165                 170                 175
206 Pro Val Trp Leu Tyr Ala Arg Leu Ile Pro Phe Pro Gly Gly Ala Val
207             180                 185                 190
209 Gly Cys Gly Ile Arg Leu Pro Asn Pro Asp Thr Asp Leu Tyr Trp Phe
210         195                 200                 205
212 Thr Leu Tyr Gln Phe Phe Leu Ala Phe Ala Leu Pro Phe Val Val Ile
213     210                 215                 220
215 Thr Ala Ala Tyr Val Lys Ile Leu Gln Arg Met Thr Ser Ser Val Ala
216 225                 230                 235                 240
218 Pro Ala Ser Gln Arg Ser Ile Arg Leu Arg Thr Lys Arg Val Thr Arg
219                 245                 250                 255
221 Thr Ala Ile Ala Ile Cys Leu Val Phe Phe Val Cys Trp Ala Pro Tyr
222             260                 265                 270
224 Tyr Val Leu Gln Leu Thr Gln Leu Ser Ile Ser Arg Pro Thr Leu Thr
225         275                 280                 285
227 Phe Val Tyr Leu Tyr Asn Ala Ala Ile Ser Leu Gly Tyr Ala Asn Ser
228     290                 295                 300
230 Cys Leu Asn Pro Phe Val Tyr Ile Val Leu Cys Glu Thr Phe Arg Lys
231 305                 310                 315                 320
233 Arg Leu Val Leu Ser Val Lys Pro Ala Ala Gln Gly Gln Leu Arg Thr
234                 325                 330                 335
236 Val Ser Asn Ala Gln Thr Ala Asp Glu Glu Arg Thr Glu Ser Lys Gly
237             340                 345                 350
239 Thr
243 <210> SEQ ID NO: 5
244 <211> LENGTH: 26
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
251 <400> SEQUENCE: 5
252 gggaactcca cggtcatctt cgcggt                                        26
255 <210> SEQ ID NO: 6
256 <211> LENGTH: 26
257 <212> TYPE: DNA
258 <213> ORGANISM: Artificial Sequence
260 <220> FEATURE:
261 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
263 <400> SEQUENCE: 6
264 tagcggtcaa tggccatggc ggtcag                                        26
267 <210> SEQ ID NO: 7
268 <211> LENGTH: 45
269 <212> TYPE: DNA
270 <213> ORGANISM: Artificial Sequence
272 <220> FEATURE:
273 <223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
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PATENT APPLICATION: US/09/899,732 TIME: 11:32:32

Input Set : A:\Pto.amc
Output Set: N:\CRF3\08162001\I899732.raw

<400> SEQUENCE: 7
ctcctgggca tgcccttcat gatccaccag ctcatgggca atggg 45
<210> SEQ ID NO: 8
<211> LENGTH: 25
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 8
cttctaggcc tgtacggaag tgtta 25
<210> SEQ ID NO: 9
<211> LENGTH: 27
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 9
gttgtggttt gtccaaactc atcaatg 27
<210> SEQ ID NO: 10
<211> LENGTH: 37
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 10
cgcggatcca ttatgtctgc actccgaagg aaatttg 37
<210> SEQ ID NO: 11
<211> LENGTH: 38
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 11
cgcgaattct tatgtgaagc gatcagagtt catttttc 38
<210> SEQ ID NO: 12
<211> LENGTH: 34
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 12
gcgggatccg ctatggctgg tgattctagg aatg 34
<210> SEQ ID NO: 13
<211> LENGTH: 29
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence
<220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence: primer/probe
<400> SEQUENCE: 13

VERIFICATION SUMMARY DATE: 08/21/2001
PATENT APPLICATION: **US/09/899,732** TIME: 11:32:33

Input Set : **A:\Pto.amc**
Output Set: **N:\CRF3\08162001\I899732.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number